

# Aggregating Secondary Source Data for Air Cargo Prescreening, Phase I

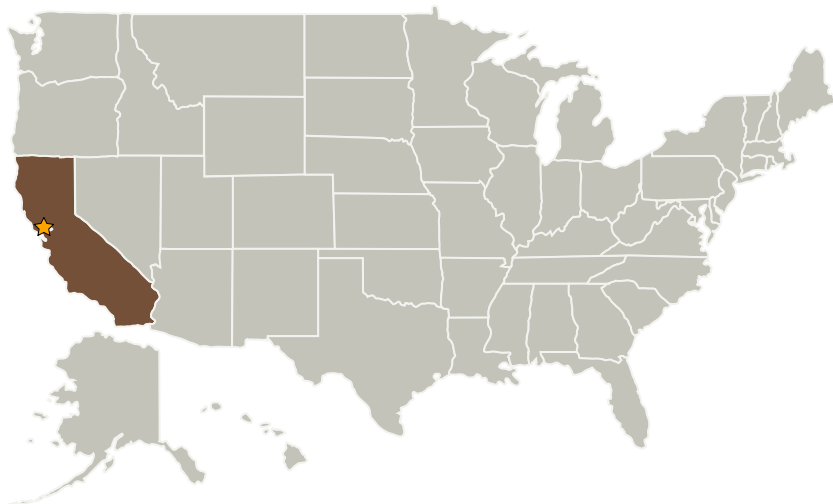
Completed Technology Project (2005 - 2005)



## Project Introduction

We propose to improve the effectiveness of air cargo prescreening by enabling background knowledge about companies and products to be used for threat assessment. The Transportation Security Administration's (TSA) current approach for pre-screening air cargo shipments is based primarily on the Known Shipper Program, which has several shortcomings. By combining sophisticated data extraction and integration technology with state-of-the-art data mining capabilities, threat assessment rules can be developed to help identify high-risk cargo. However, threat assessment relies on having data about the entities being assessed. In this project, we propose to develop novel data aggregation methods to automatically gather information about companies and products from corporate web sites, business directories, and other internet sources. We can then augment primary data sources (cargo manifest, database of past cargo shipments, package characteristics such as weight and volume) with additional background data (shipper and receiver information, shippable goods information) to perform threat assessment, and thereby route high-risk cargo for additional inspection. The use of this background data has great potential to significantly improve the ability of the TSA to detect vulnerabilities that may arise in the shipment of air cargo to, from, and within the United States.

## Primary U.S. Work Locations and Key Partners



Aggregating Secondary Source Data for Air Cargo Prescreening, Phase I

## Table of Contents

Project Introduction	1
Primary U.S. Work Locations and Key Partners	1
Organizational Responsibility	1
Project Management	2
Technology Areas	2

## Organizational Responsibility

### Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

### Lead Center / Facility:

Ames Research Center (ARC)

### Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Aggregating Secondary Source Data for Air Cargo Prescreening,  
Phase I

Completed Technology Project (2005 - 2005)



Organizations Performing Work	Role	Type	Location
★ Ames Research Center(ARC)	Lead Organization	NASA Center	Moffett Field, California
Fetch Technologies	Supporting Organization	Industry	El Segundo, California

## Primary U.S. Work Locations

California

## Project Management

**Program Director:**

Jason L Kessler

**Program Manager:**

Carlos Torrez

**Principal Investigator:**

Steven Minton

## Technology Areas

**Primary:**

- TX11 Software, Modeling, Simulation, and Information Processing
  - └ TX11.6 Ground Computing
    - └ TX11.6.7 High Performance Data Analytics Platform